

Application No. 09/760,964
Amendment dated August 18, 2006
Reply to Final Office Action of June 23, 2006

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A printer system comprising:
a first transmitter communication interface configured to receive a humidity value from a toner cartridge, wherein the toner cartridge is comprised of a humidity sensor and a second transmitter communication interface; and
printer components configured to electronically control a printing operation based on the humidity value.
2. (Currently Amended) The printer system of claim 1 wherein the toner cartridge is configured for coupling to the printer system and wherein:
the humidity sensor is configured to detect a humidity level and generate the humidity value to correspond with humidity level; and
the second transmitter communication interface is configured to transfer the humidity value from the humidity sensor to the first transmitter communication interface.
3. (Original) The printer system of claim 1 wherein the printer components are configured to configure a dither matrix based on the humidity value.

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4. (Previously Presented) The printer system of claim 3 wherein the printer components are configured to select the dither matrix from a plurality of dither matrices based on the humidity value.
5. (Original) The printer system of claim 3 wherein the printer components are configured to scale the dither matrix by applying the humidity value to a response curve.
6. (Canceled)
7. (Original) The printer system of claim 1 wherein the printer components are configured to determine a humidity range corresponding to the humidity value.
8. (Currently Amended) The printer system of claim 1 wherein
the first transmitter communication interface is configured to receive the humidity value from the toner cartridge in real-time; and
the printer components configured to electronically control printing operation based on the humidity value in real-time.
9. (Original) The printer system of claim 1 wherein the printer components are configured to produce monochrome copies.
10. (Currently Amended) A method of operating a printer system, the method comprising:
receiving a humidity value from a toner cartridge, wherein the toner cartridge is comprised of a humidity sensor and a transmitter communication interface;
electronically controlling printing operation based on the humidity value; and
reconfiguring printer components if the humidity value has changed after at least one of:
a set number of copies; and

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a set number of power cycles.

11. (Original) The method of claim 10 further comprising, in the toner cartridge:
detecting a humidity level;
generating the humidity value to correspond with the humidity level; and
transferring the humidity value from the toner cartridge to the printer system.
12. (Original) The method of claim 10 wherein controlling the printing operation based on the humidity value comprises configuring a dither matrix based on the humidity value.
13. (Original) The method of claim 12 wherein configuring the dither matrix based on the humidity value comprises selecting the dither matrix from a plurality of dither matrices based on the humidity value.
14. (Original) The method of claim 12 wherein configuring the dither matrix based on the humidity value comprises applying the humidity value to a response to curve to scale the dither matrix.
15. (Original) The method of claim 10 wherein controlling the printing operation based on the humidity value comprises using a default value if the humidity value is not available.
16. (Original) The method of claim 10 wherein controlling the printing operation based on the humidity value comprises determining a humidity range corresponding to the humidity value.
17. (Previously Presented) The method of claim 10 wherein:

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receiving the humidity value from the toner cartridge comprises receiving the humidity value from the toner cartridge in real-time; and

electronically controlling the printing operation based on the humidity value comprises controlling the printing operation based on the humidity value in real-time.

18. (Original) The method of claim 10 wherein controlling the printing operation based on the humidity value comprises producing monochrome copies.

19. (Currently Amended) A toner cartridge comprising:

toner for a printer system;

a humidity sensor configured to detect a humidity level and generate a humidity value that corresponds to the humidity level; and

a transmitter communication interface configured to transfer the humidity value from the humidity sensor to the printer system to electronically control a printing operation.

20. (Original) The toner cartridge of claim 19 wherein the humidity sensor is configured to generate the humidity value to correspond to a humidity range for the humidity level.